

Plant A Speaker

INSTRUCTION MANUAL

Thank you for purchasing two or more of our beautiful PlantASpeakers.

Please follow the instructions in this booklet to insure your safe long-term enjoyment of beautiful music and plants.

If you have any additional questions, please contact us at plantaspeaker@att.net or call 914-939-9155.



CONNECTING THE PLANT A SPEAKER

WARNING: Before you start to install your new speakers please be aware of the following. Only use speaker wire rated for direct burial, full outdoor temperature range and direct sunlight.

Do not run the speaker wires with AC electrical cables, this will cause a loud hum in the speakers and may damage your amplifier and create a shock hazard.

Do not use amplifiers rated for over 150 Watts per channel as the amount of current may exceed local electrical codes. We recommend an amplifier rated at 50-80 watts RMS per channel + rated for 4 ohms.

IMPORTANT: When designing your Plant ASpeaker layout please note that one pair of speakers will cover approx. 300-400 sq. Ft. with the full musical range. When you need to cover a larger space, add more Plant ASpeakers.

Note: Do not connect more than two sets of speakers to one amplifier rated at 4 Ohms. If there are other speakers connected to your amplifier, you will need a PROTECTED speaker selector switch otherwise your amplifier will overload and the sound will be distorted causing damage to the speakers and the amplifier.

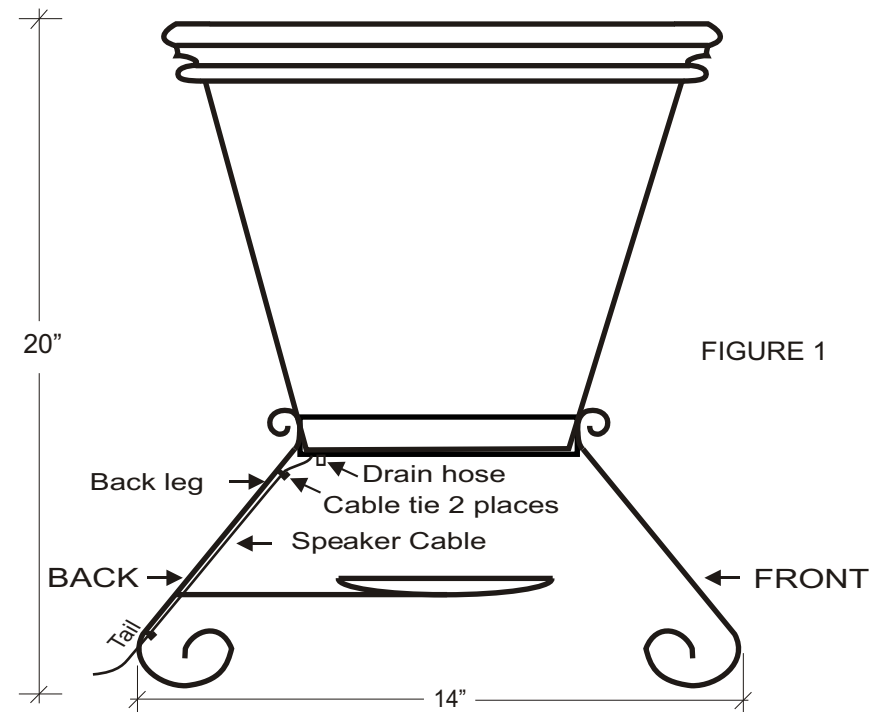
SETUP INSTRUCTIONS

Design the layout of your new outdoor speakers so they will cover the area where you spend the most time. In most cases, outdoor speakers are set up like indoor speakers, 6 to 12 ft apart except in the case where you wish to hear the sound in two different areas (EXP: patio/deck). What is important to remember is that the Plant A Speaker sends the sound out from all sides (360°), so be creative with your location selection and be aware that when placed near a neighbors yard, they will hear the sound too!

LOCATION TIPS

Outdoor locations have lower sound output because they are filling a larger air volume with sound. For example, a normal listening level (87dB) throughout a typical 300-400 square foot room uses only 4 watts. To fill the same space outdoors requires 40watts. We recommend one pair of Plant ASpeakers for every 300-400 square feet (30m²) of listening area.

Living rooms also boost bass 6 to 20dB relative to outdoors. If loud bass is desired outdoors, we suggest ganging multiple pairs of Plant A Speaker.. Two speakers in close proximity will output 6dB more bass. Placing your Plant A Speaker next to a wall will also boost bass 5dB (10dB in a corner between two walls).



For every 2-4 speakers you will need a weatherproof volume control to adjust the speaker level from outside, otherwise, you will be running back into the house every time a disc changes as they are recorded at different sound levels.

As mentioned before, only use direct burial cable and chose the wire size according to the following chart (From the stereo to the speaker location):

0 - 50 feet - 18 gauge stranded	150 - 200 feet - 12 gauge stranded
50 - 100 feet - 16 gauge stranded	200 - 250 feet - 10 gauge stranded
100 - 150 feet - 14 gauge stranded	

Install the direct burial cable in PVC pipe 18" underground or drop the wire into the 18" trench to avoid damage by gardeners and landscapers.

When the wiring is complete, connect the "Tail" of the wire (see figure 1) coming out of the speaker to the burial cable by way of electrical "twist on" connectors and wrap with electrical tape to seal off from water damage and corrosion.

NOTE: the tail wires tie to a rear leg with supplied wire ties.

Next, connect the amplifier and test the speaker connections at a low volume to avoid damage if there is a bad connection. If OK, raise the volume to the desired level and listen to the music.

If distortion is heard go over the complete installation to check for bad connections & shorts.

Note: Remember to “Phase” the speakers by connecting the red & black wires to the same colors at the speaker and amplifier (red is +, black is -). If you experience a lack of bass, more than likely, the wires are out of phase!

PLANTING INSTRUCTIONS

About half of the pot depth is used to develop the full, rich bass sound, therefore only select plants with shallow roots. The advanced drain system provides both an extended moisture reservoir and excellent drainage, so it is tolerant of over and under-watering for a wide range of species. Annuals, bulbs, ground cover, ferns and grasses all yield good results.

Start filling the plant a speaker with a couple of inches of high-quality potting soil mix. Wet evenly using a sprinkle watering can or hand sprayer. Arrange your plants, and then fill with soil or mix to the top of the root-ball. Water slowly and evenly, about ½ gallon. Stop if water comes out of the drain tube. There is a normal one to two minute delay for water to filter through the reservoir drain system.

CLEANING Plant A Speaker

Do Not use chemical or solvents to clean, it will void the warranty. Basic or caustic solutions like drain cleaner, concrete cleaner, rust remover and bleach will corrode grills. Diluted bleach may be used to occasionally disinfect the plant compartment. Solvents including alcohol and petroleum products will hurt the finish, degrade the glue joints of the drivers and damage other suspension materials.

Do clean with water and soap. Use a rag or sponge to clean grills.

Do Not use a brush on the aluminum speaker grille.

Do Not use a pressure spray to clean Plant A Speaker.

HIGH TEMPERATURES and Plant A Speaker

Plant A Speaker operated or stored above rated temperature range will melt.

LOW TEMPERATURES and Plant A Speaker

Plant A Speaker will survive freezing and snow with no damage, however the overall life expectancy will be 25-50% less. **THEREFORE WE RECOMMEND TAKING THEM IN FOR THE WINTER.** If you use your Plant A Speaker below 40F (5C), there will be less bass and volume, use below freezing while trying to make up the bass/volume difference will stress the drivers and eventually result in failure.

ENVIRONMENTAL SPECIFICATIONS:

Storage temperature ranges: -30° to 60°C; -20° to 140° F

Operating temperature range: 5° to 45°C; 40° to 110° F

Humidity: 0-100%.

HIGH HUMIDITY and Plant A Speaker

With temperature cycles under high humidity, there may be condensation in the voice coil gap of the drivers. We recommend that the Plant A Speaker be warmed up. Always play moderate level music for 15 minutes before playing at normal volume.

SPRINKLERS and Plant A Speaker

Do Not install over a sprinkler, or where the speaker grille is hit by direct pressure watering. Water pressure will not cause immediate damage, but it will degrade the sound quality until the grille area evaporates.

RAIN and Plant A Speaker

Plant A Speaker will operate safely and drain properly during rainfall, but may exhibit some temporary loss of treble. If they are installed in an area prone to thunderstorms, we recommend installing lightning protection on the wires between the Plant A Speakers and the amplifier.

CARE OF STANDS

The wrought iron Plant A Speaker stands are finished with an epoxy powder-coat to resist corrosion; but it is normal for this coating to develop cracks at welds and where it touches other materials. This may result in small areas of rust staining on the stands & materials contacting them. To restore the original cosmetics, clean rusted areas with a metal brush. Then spray or brush on a sealing finish, preferable a rust inhibiting paint like Rustoleum™. **Steel corrosion is more rapid in a salt-spray environment close to the seashore.** The stands last 3 years under these conditions and should be inspected at least once a year for structural integrity.

SPECIFICATIONS

Woofer:	6" weatherized cone speaker	Freq. Resp.: 80 Hz to 15 KHz +/- 3db
Tweeter:	13mm aluminum	SPL: 90 dB 1w@1m
Impedance:	8 ohms, DC 6 ohms	Weight: 13 lbs (each).
Power Rating:	40 w RMS - 80 w Peak	

PLANT A SPEAKER WARRANTY

Plant A Speaker are warrantied to be free of defects in materials and workmanship for a period of 1 (one) year from original purchase.

This warranty specifically excludes abuse of the following types:

1. Over-powering: Use of amplifiers rated over 150 WPC into 8 ohms is hazardous and abusive.
2. Clipping: excessive volume causing amplifiers to distort damages tweeters using even modest power (25W).
3. Dropping: impact will damage Plant A Speaker both cosmetically and functionally.
4. Pressure washing: pressure sprays can damage drivers.
5. Removal of grills: will cause insect nesting, dirt accumulation and other foreign matter on cones & domes.
6. Penetration of the speaker compartment: any hole created in speaker compartment by impact, drilling, sawing or cutting, screwing or unscrewing, or by any other means, is abuse.
7. Submersion: internal corrosion, deposits and/or encrustation of salt is evidence.
8. Harsh chemicals: basic or caustic solutions like lawn chemicals, drain cleaner, rust remover, concrete cleaner and bleach will corrode grills. Solvents will degrade the glue joints of the drivers.
9. Overheating: operation or storage above recommend temperatures will result in melting of plastic components. Do not leave Plant A Speaker in full sun under glass or inside metal (cars, trucks, quonset huts, etc.) Without ventilation.
10. Excessive cold: operation below recommended temperature range will result in driver damage, particularly full power startup.
11. Bent stands.
12. This warranty is not transferable.

Contact us at Plant A Speaker **P.O. BOX 111, Port Chester, NY 10573**. With no signs of abuse we'll provide parts and labor free of charge for 1 year. We will not cover: accidental or consequential damages, including but not limited to loss of plants. We will not cover: packing materials or shipping charges if required.

Plant A Speaker P.O. BOX 111, Port Chester, NY 10573